

**This Page Is Inserted by IFW Operations
and is not a part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- **BLACK BORDERS**
- **TEXT CUT OFF AT TOP, BOTTOM OR SIDES**
- **FADED TEXT**
- **ILLEGIBLE TEXT**
- **SKEWED/SLANTED IMAGES**
- **COLORED PHOTOS**
- **BLACK OR VERY BLACK AND WHITE DARK PHOTOS**
- **GRAY SCALE DOCUMENTS**

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 November 2000 (02.11.2000)

PCT

(10) International Publication Number
WO 00/65083 A3

- (51) International Patent Classification⁷: C12Q 1/28, G01N 33/72, 33/52
- (21) International Application Number: PCT/US00/11204
- (22) International Filing Date: 26 April 2000 (26.04.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/299,399 26 April 1999 (26.04.1999) US
09/517,481 2 March 2000 (02.03.2000) US
09/517,441 2 March 2000 (02.03.2000) US
- (71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CAPRI, Maria, Grazia [IT/IT]; Via P. Nenni, 150, I-66020 S. Giovanni Teatino (IT). CARLUCCI, Giovanni [IT/IT]; Via A. Fieramosca, 118, I-66100 Chieti (IT). GUERRESCHI, Lisa [IT/IT]; Via G. Garibaldi, 25, I-26048 Sospiro (IT). HAMMONS, John, L. [US/US]; 7379 Dust Commander Court, Hamilton, OH 45011 (US).
- (74) Agents: REED, T. David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).
- (81) Designated States (*national*): AE, AL, AM, AT, AT (utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility model), DK, DK (utility model), DM, EE, EE (utility model), ES, FI, FI (utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:
— With international search report.
- (88) Date of publication of the international search report:
8 February 2001
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FEMININE SANITARY DISPOSABLE ARTICLE HAVING A BLOOD DETECTION MEANS AS SENSOR

(57) Abstract: The present invention relates to feminine sanitary disposable absorbent articles and, more particularly, to sanitary napkins or panty liners comprising a blood detection means for menstruation prediction by having sensors which have a recognition element to detect the presence of blood indicative of the approach of menstruation and which provide a visual signal indicating the approach of menstruation.



WO 00/65083 A3

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/11204

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/28 G01N33/72 G01N33/52

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q G01N A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94 24557 A (US ARMY) 27 October 1994 (1994-10-27) the whole document ---	1-8
X	US 5 468 236 A (DEIBLER ELIZABETH A ET AL) 21 November 1995 (1995-11-21) the whole document ---	1-8
X	DATABASE WPI Derwent Publications Ltd., London, GB; AN 1999-074156 XP002146685 & JP 10 313894 A (DAIKI KK), 2 December 1998 (1998-12-02) the whole document --- -/--	1-8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

14 September 2000

Date of mailing of the international search report

24/10/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3018

Authorized officer

Pellegrini, P

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/11204

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>WO 80 02596 A (OSTER G ;KESTON A (US)) 27 November 1980 (1980-11-27) claims</p> <p style="text-align: center;">-----</p>	1-8

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/11204

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
WO 9424557	A	27-10-1994	AU	6704294 A	08-11-1994
US 5468236	A	21-11-1995	CA	2107168 A	10-12-1994
JP 10313894	A	02-12-1998	JP	2927772 B	28-07-1999
WO 8002596	A	27-11-1980	EP	0028644 A	20-05-1981